

WE CLAIM:

5.6A2 > 1. A method for reducing facsimile page errors due to packet loss in facsimile transmission over a packet network, comprising the steps of:

5 receiving facsimile image data packets from a packet network;

reassembling said received packets;

parsing said assembled packets into scan line data of said facsimile image;

10 evaluating said scan line data to detect the expected end of a scan line without packet loss;

playing out said scan line data to the local FTE if said scan line data has no packet loss; and

15 discarding said scan line data if said scan line data has packet loss.

2. The method of Claim 1, further comprising the steps of: replacing said discarded scan line data with zero fill data; and

20 playing out said zero fill data to said local FTE.

3. The method of Claim 1, further comprising the step of: replacing said discarded scan line data with scan line data defining a blank scan line.

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4. The method of Claim 1, further comprising the step of:  
replacing said discarded scan line data with a repetition of  
the previous scan line.

5 5. The method of Claim 1, further comprising the step of:  
buffering said scan line data;

6. The method of Claim 2, further comprising the steps of:  
continuing to provide zero fill data to said local FTE;  
10 monitoring said scan line data for the start of the next  
detected scan line;

buffering said next detected scan line data;  
evaluating said next detected scan line data to detect the  
expected end of a scan line without packet loss;  
15 playing out said next detected scan line data to the local  
FTE if said scan line data has no packet loss; and  
continuing to provide zero fill data to said local FTE if  
said scan line data has packet loss.

20 7. A device for reducing facsimile page errors due to  
packet loss in facsimile transmission over a packet network,  
comprising:

a gateway for receiving facsimile image data packets from a  
packet network;

25 a processor for reassembling said received packets, parsing  
said assembled packets into scan line data of said facsimile

image, evaluating said scan line data to detect the expected end  
of a scan line without packet loss, playing out said scan line  
data to the local FTE if said scan line data has no packet loss;  
and for discarding said scan line data if said scan line data has  
5 packet loss.

8. The apparatus of Claim 7, wherein said processor  
further replaces said discarded scan line data with zero fill  
data and plays out said zero fill data to said local FTE.

9. The apparatus of Claim 7, wherein said processor  
further replaces said discarded scan line data with scan line  
data defining a blank scan line.

10. The apparatus of Claim 7, wherein said processor  
further replaces said discarded scan line data with a repetition  
of the previous scan line.

11. The apparatus of Claim 7, further comprising a buffer  
20 for buffering said scan line data;

12. The method of Claim 8, wherein:  
said processor further continues to provide zero fill data  
to said local FTE while monitoring said scan line data for the  
25 start of the next detected scan line;  
said buffer stores said next detected scan line data;

said processor evaluates said next detected scan line data  
to detect the expected end of a scan line without packet loss,  
plays out said next detected scan line data to the local FTE if  
said scan line data has no packet loss or continues to provide  
5 zero fill data to said local FTE if said scan line data has  
packet loss.

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